Argonne NATIONAL LABORATORY

Advanced Powertrain Research Facility

Downloadable Dynamometer Database (D[3])- Test Summary Sheet

2009 VW Jetta TDI

Vehicle Architecture	Conventional- Diesel
Document Date	11/15/2012
Revision Number	1
Notes:	

Vehicle Setup Information

Test Cell Location	Front
Vehicle Dynamometer Input	
Test weight [lb]	3625
Target A [lb]	35
Target B [lb/mph]	0.18
Target C [lb/mph^2]	0.0193
Test Fuel Information	
Fuel type	2007 Certification Diesel
Fuel density [g/ml]	0.855
Fuel Net HV [BTU/lbm]	18355

Test ID [#]	Cycle	Cold start (CS)/ Hot start [HS]	Date	Test Cell Temp [C]	Test Cell RH [%]	Test Cell Baro [inHg]	Vehicle cooling fan speed: Speed Match [SM] or constant speed [CS]	Solar Lamps [W/m2]	Veicle Climate Control settings	Hood Position [Up] or [Closed]	Window Position [Closed] or [Down]	Cycle Distance [mi]	Cycle Fuel economy [mpg] (Modal)	Cycle HV battery Integrated net current [DC Ah]	Cycle HV battery Average Zero crossing Voltage [V]	Cycle HV battery Net Energy [DC kWh]	Cycle HV battery Net Energy Consumption [DC Wh/mi]
Test information				Test cell information			Test cell setup		Vehicle setup					Electric energy consumption			
Test sequence purpose: Standard testing																	
61210094	UDDS CS	CSt	10/25/12,	-6.74	17.90	29.12	SM	Off	Heat Full	Closed	Closed	7.43	25.9				
61210095	UDDS HS	HSt	10/25/12,	-6.66	19.31	29.11	SM	Off	Heat- Fan 3	Closed	Closed	7.43	31.4				
61210097	Highway	HSt	10/25/12,	-6.75	20.26	29.10	SM	Off	Heat- Fan 3	Closed	Closed	10.26	48.7				
61210098	US06	HSt	10/25/12,	-7.57	23.38	29.08	SM	Off	Heat- Fan 3	Closed	Closed	8.03	35.7				
61210099	Steady State Speed	HSt	10/25/12,	-7.29	22.59	29.07	SM	Off	Heat- Fan 3	Closed	Closed						
Full charge test summary											**Totals**						
61210112	UDDS CS	CSt	10/29/12,	21.91	47.72	29.52	SM	Off	Off	Closed	Closed	7.48	31.3				
61210113	UDDS HS	HSt	10/29/12,	21.44	47.42	29.52	SM	Off	Off	Closed	Closed	7.47	35.5				
61210091	Highway	HSt	10/24/12,	23.21	59.96	29.16	SM	Off	Off	Closed	Closed	10.26	52.4				
61210092	US06	HSt	10/24/12,	22.42	56.39	29.15	SM	Off	Off	Closed	Closed	8.02	34.2				
60906082	Steady State Speed	HSt	06/19/09,	20.31	58.50	29.04	SM	Off	Off	Closed	Closed						
Full charge test summary											**Totals**						
61210102	UDDS CS	CSt	10/26/12,	35.72	39.28	29.52	SM	850	AC Full	Closed	Closed	7.44	25.7				
61210103	UDDS HS	HSt	10/26/12,	36.12	40.47	29.54	SM	850	AC Full	Closed	Closed	7.44	25.9				
61210105	Highway	HSt	10/26/12,	37.04	37.44	29.58	SM	850	AC Full	Closed	Closed	10.28	43.6				
61210106	US06	HSt	10/26/12,	37.24	35.60	29.57	SM	850	AC Full	Closed	Closed	8.02	30.9				
61210109	Steady State Speed	HSt	10/26/12,	36.35	38.60	29.54	SM	850	AC Full	Closed	Closed						
Full charge test summary											**Totals**						

Re-charging information	N/A	Ambient temperature during charge	HV battery integrated current [DC Ah] **N/A**
Level:			Charger integrated current [AC Ah] **N/A**
			HV battery integrated power [DC kWh] **N/A**
			Charger integrated power [AC kWh] **N/A**

Summary notes

For the highway and US06 cycles only the second (hot) test results are presented in this summary.

Electric energy consumption:

HV battery Integrated net current --> Integrated current as reported by power analyzer

HV battery Average Zero crossing Voltage --> Calculated Average Zero crossing Voltage over the phase or cycle

HV Net Energy --> Integrated power as reported by power analyzer

Note that HV Net Energy is not equal to the product of HV battery Integrated net current times Average Zero crossing Voltage.

* The vehicle coast down information for EPA

Advanced Powertrain Research Facility Data referencing:

- This data has originated from the Argonne National Laboratory D[3] website. http://webapps.anl.gov/vehicle_data/
- The purpose of this information is to provide advanced technology vehicle chassis dynamometer test data for the engineering community. Mostly comprised of vehicle benchmarking test results, it is intended for the better understanding of the technology and for education. Data from this website may not used as a source for publication or profit without consent of Argonne National Laboratory.
- Please contact d3info@anl.gov for questions, comments or inquiries.